0Substitute for form 1449A/PTO (Revised 10/2001)	Complete if Known	
	Application Number	10/647,062
	Filing Date	August 22, 2003
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*	First Named Inventor	Zhong, et al.
	Group Art Unit	3661
	Examiner Name	Donnelly, Arthur D.

Sheet	1	of	4	Attorney Docket Number	018360-254508

OTHER PRIOR ART: NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s) , volume-issue number(s), publisher, city and/or country where published.	T?
M.L.	62	KUHN, H.W.; "The Hungarian Method for the Assignment Problem," NAVAL RESEARCH LOGISTICS QUARTERLY (1955); pp. 83-97, Vol. 2.	N/A
M.L.	63	BEARDWOOD, Jillian, et al.; "The Shortest Path Through Many Points," PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY (Mar. 1958); pp. 299-328, Vol. 55.	N/A
M.L.	64	GILLETT, Billy E., et al.; "A Heuristic Algorithm for the Vehicle-Dispatch Problem," OPERATIONS RESEARCH (April 1971); pp. 340-49, Vol. 22.	N/A
M.L.	65	FISHER, M.L., et al.; "A Generalized Assignment Heuristic for Vehicle Routing," NETWORKS (1981); pp. 109-124, Vol. 11.	N/A
M.L.	66	CHRISTOFIDES, Nicos, et al.; "State-Space Relaxation Procedures for the Computation of Bounds to Routing Problems," NETWORKS (1981); pp. 145-64, Vol. 11.	N/A
M.L.	67	BEASLEY, J.E.; "Fixed Routes," JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY (1984); pp. 49-55, Vol. 35, No. 1.	N/A
M.L.	68	DAGANZO, Carlos F.; "The Distance Traveled to Visit N Points With a Maximum of C Stops Per Vehicle: An Analytical Model and An Application," TRANSPORTATION SCIENCE (Nov. 1984); pp. 331-50; Vol. 18, No. 4.	N/A
M.L.	69	DROR, M., et al.; "Stochastic Vehicle Routing With Modified Savings Algorithm," European Journal of Operational Research (1986); pp. 228-35; Vol. 23.	N/A
M.L.	70	DAGANZO, Carlos F.; "One-to-Many Distribution With Trans-Shipments," LOGISTICS SYSTEMS ANALYSIS (3rd Ed. 1999, Springer-Verlag, Berlin); Chapter 5; pp. 163-210.	N/A
M.L.	71	DAGANZO, Carlos F.; "Many-to-Many Distribution," LOGISTICS SYSTEMS ANALYSIS (3rd Ed. 1999, Springer-Verlag, Berlin); Chapter 6; pp. 211-73.	N/A
M.L.	72	OSMAN, Ibrahim H., et al.; "Meta-Heuristics: An Overview," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 1; pp. 1-21.	N/A

Examiner Signature	MATTHEW LUU	Date Considered	5/14/06

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M.L.	73	AL-MAHMEED, Ahmed S.; "Tabu Search, Combination and Integration," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 20; pp. 319 – 330.	N/A
M.L.	74	BATTITI, Roberto, et al.; "Vector Quantization with the Reactive Tabu Search," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 21; pp. 331 – 342.	N/A
M.L.	75	CASTELINO, Diane, et al.; "Tabu Thresholding for the Frequency Assignment Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 22; pp. 343 – 359.	N/A
M.L.	76	DELL'AMICO, Mauro, et al.; "A New Tabu Search Approach to the 0-1 Equicut Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 23; pp. 361 – 377.	N/A
M.L.	77	DOWSLAND, Kathryn, A.; "Simple Tabu Thresholding and the Pallet Loading Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 24; pp. 379 – 405.	N/A
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M.L.	80	HANAFI, S., et al.; "Comparison of Heuristics for the 0-1 Multidimensional Knapsack Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 27; pp. 449 – 465.	N/A
M.L.	81	LØKKETANGEN, Arne, et al.; "Probabilistic Move Selection in Tabu Search for Zero-One Mixed Integer Programming Problems," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 28; pp. 467 – 487.	N/A

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INFORMATION DISCLOSURE				First Named Inventor	Zhong, et al.
STATEMENT BY APPLICANT				Group Art Unit	3611
(Use as many sheets as necessary)				Examiner Name	Donnelly, Arthur D.
Sheet	3	of	4	Attorney Docket Number	018360-254508

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M.L	82	SONDERGELD, Lutz, *et al.*; "A Star-Shaped Diversification Approach in Tabu Search," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 29; pp. 489 – 502.	N/A
M.L	83	TOULOUSE, Michel, *et al.*; "Communication Issues in Designing Cooperative Multi-Thread Parallel Searches," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 30; pp. 503 – 522.	N/A
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M.L.	85	VALLS, Vicente, *et al.*; "A Modified Tabu Thresholding Approach for the Generalised Restricted Vertex Colouring Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 32; pp. 537 – 553.	N/A
M.L	86	WOODRUFF, David L.; "Chunking Applied to Reactive Tabu Search," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 33; pp. 555 – 569.	N/A
M.L	87	ZACHARIASEN, Martin, *et al.*; "Tabu Search on the Geometric Traveling Salesman Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 34; pp. 571 – 587.	N/A
M.L	88	CHARON, Irène, *et al.*; "Mixing Different Components of Metaheuristics," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 35; pp. 589 – 603.	N/A
M.L	89	TEN EIKELDER, H.M.M., *et al.*; "A Probabilistic Analysis of Local Search," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 36; pp. 605 – 618.	N/A
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	Examiner Name	Donnelly, Arthur D.
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M.L.	91	EGLESE, Richard W., *et al.*; "A Tabu Search Based Heuristic for Arc Routing with a Capacity Constraint and Time Deadline," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 38; pp. 633 – 649.	N/A
M.L.	92	GHAZIRI, Hassan; "Supervision in the Self-Organizing Feature Map: Application to the Vehicle Routing Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 39; pp. 651 – 660.	N/A
M.L.	93	REGO, César, *et al.*; "A Parallel Tabu Search Algorithm Using Ejection Chains for the Vehicle Routing Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 40; pp. 661 – 675.	N/A
M.L.	94	TOTH, Paolo, *et al.*; "Fast Local Search Algorithms for the Handicapped Persons Transportation Problem," META-HEURISTICS: THEORY & APPLICATIONS (1996, Kluwer Academic Publishers, Boston; I.H. Osman and J.P. Kelly, Editors); Chapter 41; pp. 677 – 690.	N/A
M.L.	95	ERERA, Alan L.; "Design of Large-Scale Logistics Systems for Uncertain Environments" (Fall 2000, Dissertation, University of California, Berkeley); pp. 1-206.	N/A

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U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number – Kind Code	Publication Date MM-DD-YYYY	Name of Patentee of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
M.L.	1	5,122,959 – A	01-16-1992	Nathanson, et al.	Whole Document
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M.L.	7	6,272,483 – B1	08-07-2001	Joslin, et al.	Whole Document
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M.L.	15	2003/0060924 – A1	03-27-2003	Ye, et al.	Whole Document
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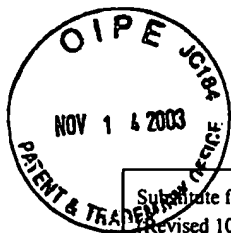
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M.L.	19	JP	2000 112,925	A2	04-21-2000	Okano	Whole Document	Abstract Only

OTHER PRIOR ART: NON-PATENT LITERATURE DOCUMENTS

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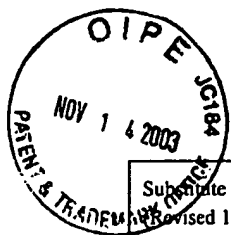| Substitute for form 1449A/PTO (Revised 10/2001)	Complete if Known	
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M.L.	20	SOLOMON, F.; "Algorithms for the Vehicle Routing and Scheduling Problems With Time Window Constraints;" OPERATIONS RESEARCH; March-April 1987, pp. 254-65, Vol. 35, No. 2; Operations Research Society of America.	N/A
M.L.	21	GENDREAU, M., et al.; "A Tabu Search Heuristic for the Vehicle Routing Problem With Stochastic Demands and Customers;" OPERATIONS RESEARCH; May-June 1996; pp. 469-77, Vol. 44, No. 3; Informs.	N/A
M.L.	22	HALL, R., et al.; "Use of Continuous Approximations within Discrete Algorithms for Routing Vehicles: Experimental Results and Interpretation;" NETWORKS; 1994; pp. 43-56, Vol. 24; John Wiley & Sons, Inc.	N/A

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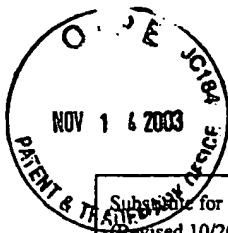
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M.L.	23	LAGUNA, M., *et al.*; "Tabu Search for the Multilevel Generalized Assignment Problem;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1995; pp. 176-89; Vol. 82; Elsevier Science B.V.	N/A
M.L	24	RUSSELL, R.; "Hybrid Heuristics for the Vehicle Routing Problem with Time Windows;" TRANSPORTATION SCIENCE; May 1995; pp. 156-66, Vol. 29, No.2; Institute for Operations Research and the Management Sciences.	N/A
M.L.	25	LAPORTE, G.; "The Vehicle Routing Problem: An Overview of Exact and Approximate Algorithms;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1992; pp. 345-58; Vol. 59; Elsevier Science Publishers B.V.	N/A
M.L.	26	KALL, P.; "Stochastic Programming;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1982; pp. 125-30; Vol. 10; North-Holland Publishing Company.	N/A
M.L	27	POTVIN, J., *et al.*; "A Parallel Route Building Algorithm for the Vehicle Routing and Scheduling Problem with Time Windows;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1993; pp. 331-40; Vol. 66; Elsevier Science Publishers B.V.	N/A
M.L.	28	STEWART, Jr., W., *et al.*; "Stochastic Vehicle Routing: A Comprehensive Approach;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1983; pp. 371-85; Vol. 14; Elsevier Science Publishers B.V.	N/A
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M.L.	30	LAPORTE, G., *et al.*; "Models and Exact Solutions for a Class of Stochastic Location-Routing Problems;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; February 1988; pp. 71-78; Vol. 39; Elsevier Science Publishers B.V.	N/A
M.L.	31	BERTSIMAS, D., *et al.*; "A Stochastic and Dynamic Vehicle Routing Problem in the Euclidean Plane;" OPERATIONS RESEARCH; July-August 1991; pp. 601-15, Vol. 39, No. 4; Operations Research Society of America.	N/A
M.L.	32	HALL, R.; "Graphical Interpretation of the Transportation Problem;" TRANSPORTATION SCIENCE; February 1989; pp. 37-45, Vol. 23, No. 1; Operations Research Society of America.	N/A

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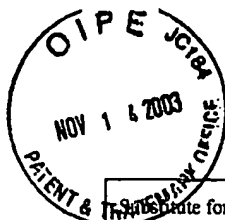
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M.L	33	BERTSIMAS, D., *et al.*; "Computational Approaches to Stochastic Vehicle Routing Problems;" TRANSPORTATION SCIENCE; November 1995; pp. 342-52, Vol. 29, No. 4; Institute for Operations Research and the Management Sciences.	N/A
M.L.	34	GENDREAU, M. *et al.*; "Invited Review: Stochastic Vehicle Routing;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1996; pp. 3-12; Vol. 88; Elsevier Science B.V.	N/A
M.L	35	BERTSIMAS, D.; "A Vehicle Routing Problem With Stochastic Demand;" OPERATIONS RESEARCH; May-June 1992; pp. 574-85, Vol. 40, No. 3; Operations Research Society of America.	N/A
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M.L	37	BEASLEY, J., *et al.*; "Vehicle Routing With a Sparse Feasibility Graph;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1997; pp. 499-511; Vol. 98; Elsevier Science Publishers B.V.	N/A
M.L.	38	WONG, K., *et al.*; "Vehicle Routing Using Fixed Delivery Areas;" OMEGA INTERNATIONAL JOURNAL OF MANAGEMENT SCIENCE; 1984; pp. 591-600, Vol. 12 No. 6; Pergamon Press Ltd.	N/A
M.L.	39	HALL, R.; "Design for Local Area Freight Networks;" TRANSPORTATION RESEARCH – B; 1993; pp. 79-81, Vol. 27B No. 2; Pergamon Press Ltd.	N/A
M.L	40	HALL, R., *et al.*; "On the Road to Efficiency;" OR/MS TODAY; June 1997; pp. 38-47.	N/A
M.L.	41	HALL, R.; "Pickup and Delivery Systems for Overnight Carriers;" TRANSPORTATION RESEARCH – A; 1996; pp. 173-87, Vol. 30, No. 3; Elsevier Science Ltd.	N/A
M.L	42	KAMOUN, M., *et al.*; "Design of Express Mail Services for Metropolitan Regions;" JOURNAL OF BUSINESS LOGISTICS; 1996; pp. 265-302, Vol. 17, No. 2.	N/A
M.L	43	DROR, M.; "Modeling Vehicle Routing with Uncertain Demands as a Stochastic Program: Properties of the Corresponding Solution;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1993; pp. 432-41; Vol. 64; Elsevier Science Publishers B.V.	N/A

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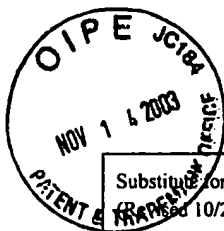
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Sheet	4	of	5	Attorney Docket Number	018360-254508

OTHER PRIOR ART: NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T?
M.L.	44	WATERS, C.; "Vehicle-Scheduling Problems with Uncertainty and Omitted Customers;" JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY; 1989; pp. 1099-1108, Vol. 40, No. 12; Operational Research Society Ltd.	N/A
M.L.	45	GENDREAU, M., et al.; "An Exact Algorithm for the Vehicle Routing Problem with Stochastic Demands and Customers;" TRANSPORTATION SCIENCE; May 1995; pp. 143-55, Vol. 29, No. 2; Institute for Operations Research and the Management Sciences.	N/A
M.L.	46	HAUGHTON, M.; "The Performance of Route Modification and Demand Stabilization Strategies in Stochastic Vehicle Routing;" TRANSPORTATION RESEARCH – B; 1998; pp. 551-66, Vol. 32, No. 8; Elsevier Science Ltd.	N/A
M.L.	47	LORENA, L.; et al.; "Relaxation Heuristics for a Generalized Assignment Problem;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1996; pp. 600-10; Vol. 91; Elsevier Science B.V.	N/A
M.L.	48	ROSS, G., et al.; "A Branch and Bound Algorithm for the Generalized Assignment Problem;" MATHEMATICAL PROGRAMMING; 1975; pp. 91-103; Vol. 8; North-Holland Publishing Company.	N/A
M.L.	49	BENTON, W., et al.; "The Vehicle Scheduling Problem with Intermittent Customer Demands;" COMPUTERS & OPERATIONS RESEARCH; pp. 521-31, Vol. 19, No. 6; Pergamon Press Ltd.	N/A
M.L.	50	HANCOCK, W., et al.; "Planning, Design and Control: The Learning Curve;" HANDBOOK OF INDUSTRIAL ENGINEERING, 1992; Chapter 61; pp. 1585-98; 2nd Ed; Salvendy, G. (ed.); John Wiley & Sons.	N/A
M.L.	51	YELLE, L.; "The Learning Curve: Historical Review and Comprehensive Survey;" DECISION SCIENCES; 1979; pp. 302-28; Vol. 10.	N/A
M.L.	52	JABER, M., et al.; "A Comparative Study of Learning Curves with Forgetting;" APPLIED MATHEMATICAL MODELLING; August 1997; pp. 523-31; Elsevier Science Ltd.	N/A
M.L.	53	DROR, M., et al.; "A Generalized Traveling Salesman Problem Approach to the Directed Clustered Rural Postman Problem;" TRANSPORTATION SCIENCE; pp. 187-92; Vol. 31, No. 2.	N/A

Examiner Signature	MATTHEW LUU	Date Considered	5/14/06	

* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO (Revised 10/2001)				Complete if Known	
				Application Number	10/647,062
				Filing Date	August 22, 2003
INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(Use as many sheets as necessary)*				First Named Inventor	Zhong, et al.
				Group Art Unit	
				Examiner Name	
Sheet	5	of	5	Attorney Docket Number	018360-254508

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M.L.	54	BERTSIMAS, D., *et al.*; "Stochastic and Dynamic Vehicle Routing in the Euclidean Plane with Multiple Capacitated Vehicles;" OPERATIONS RESEARCH; January-February 1993; pp. 60-76, Vol. 41, No. 1; Operations Research Society of America.	N/A
M.L.	55	GOLDEN, B., *et al.*; "Approximate Traveling Salesman Algorithms;" OPERATIONS RESEARCH; May-June 1980; pp. 694-712, Vol. 28, No. 3, Part II; Operations Research Society of America.	N/A
M.L.	56	BERTSIMAS, D., *et al.*; "A New Generation of Vehicle Routing Research: Robust Algorithms, Addressing Uncertainty;" OPERATIONS RESEARCH; March-April 1996; pp. 286-303, Vol. 44, No. 2; Informs.	N/A
M.L.	57	FISHER, M., *et al.*; "A Multiplier Adjustment Method for the Generalized Assignment Problem;" MANAGEMENT SCIENCE; September 1986; pp. 1095-1103, Vol. 32, No. 9; The Institute of Management Sciences.	N/A
M.L.	58	CATTRYSSE, D., *et al.*; "A Survey of Algorithms for the Generalized Assignment Problem;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1992; pp. 260-72; Vol. 60; Elsevier Science Publishers B.V.	N/A
M.L.	59	CATTRYSSE, D., *et al.*; "A Set Partitioning Heuristic for the Generalized Assignment Problem;" EUROPEAN JOURNAL OF OPERATIONAL RESEARCH; 1994; pp. 167-74; Vol. 72; Elsevier Science B.V.	N/A
M.L.	60	SAVELSBERGH, M., *et al.*; "Drive: Dynamic Routing of Independent Vehicles;" OPERATIONS RESEARCH; July-August 1998; pp. 474-90, Vol. 46, No. 4; Informs.	N/A
M.L.	61	FISHER, M.; "The Lagrangian Relaxation Method for Solving Integer Programming Problems;" MANAGEMENT SCIENCE; January 1981; pp. 1-18, Vol. 27, No. 1; The Institute of Management Sciences.	N/A

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